

## 塑封超快速整流二极管

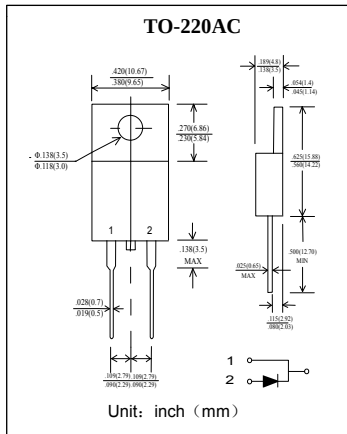
反向电压 100---600V

正向电流 20A

## Plastic Ultra-Fast Recover Rectifier

Reverse Voltage 100 to 600 V

Forward Current 20 A



## 特征 Features

- 大电流承受能力。High Current Capability
  - 正向压降低。Low Forward Voltage Drop
  - 低功耗高效率。Low Power Loss, High Efficiency
  - 引线 and 管体皆符合RoHS标准。
- Lead and body according with RoHS standard

## 机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded Plastic
- 极性: 标记模压或印于本体 Polarity: Symbols molded or marked on body
- 安装位置: 任意 Mounting Position: Any
- 安装扭矩: 推荐值 0.3牛\*米 Mounting torque: Recommend 0.3 N\*m

## 极限值和温度特性 TA = 25℃ 除非另有规定。

## Maximum Ratings &amp; Thermal Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

|                                                                                 | 符号<br>Symbols                     | MUR2010    | MUR2020 | MUR2040 | MUR2060 | 单位<br>Unit |
|---------------------------------------------------------------------------------|-----------------------------------|------------|---------|---------|---------|------------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage                          | V <sub>RRM</sub>                  | 100        | 200     | 400     | 600     | V          |
| 最大均方根电压<br>Maximum RMS voltage                                                  | V <sub>RMS</sub>                  | 70         | 140     | 280     | 420     | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage                                         | V <sub>DC</sub>                   | 100        | 200     | 400     | 600     | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current                         | I <sub>F(AV)</sub>                | 20         |         |         |         | A          |
| 峰值正向浪涌电流 8.3ms单一正弦半波<br>Peak forward surge current 8.3 ms single half sine-wave | I <sub>FSM</sub>                  | 150        |         |         |         | A          |
| 典型热阻    Typical thermal resistance                                              | R <sub>θJC</sub>                  | 3.0        |         | 2.0     |         | ℃/W        |
| 工作结温和存储温度<br>Operating junction and storage temperature range                   | T <sub>j</sub> , T <sub>STG</sub> | -55---+150 |         |         |         | ℃          |

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## Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

|                                                                                       | 符号<br>Symbols | MUR2010   | MUR2020 | MUR2040 | MUR2060 | 单位<br>Unit |
|---------------------------------------------------------------------------------------|---------------|-----------|---------|---------|---------|------------|
| 最大正向电压<br>Maximum forward voltage<br>$I_F = 20A$                                      | $V_F$         | 1.00      |         | 1.30    | 1.50    | V          |
| 最大反向电流<br>Maximum reverse current<br>$T_A = 25^\circ C$<br>$T_A = 125^\circ C$        | $I_R$         | 10<br>250 |         |         |         | μA         |
| 最大反向恢复时间<br>MAX. Reverse Recovery Time<br>$I_F = 0.5A$ $I_R = 1.0A$ $I_{REC} = 0.25A$ | $t_{rr}$      | 35        |         | 50      |         | nS         |

## 特性曲线 Characteristic Curves

